

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for optimizing an active decision making process, comprising:
 - a. creating a simulation model for the active decision making process, wherein the simulation model comprises a utility function that encodes profit and loss;
 - b. generating a plurality of alternative decisions at a choice point in the active decision making process;
 - c. for one of these alternative decisions, generating a simulation of the future decision making process using the simulation model; and
 - d. analyzing the result of this simulation to select a decision for the choice point.
2. (Original) The method of claim 1, wherein the simulation model comprises a stochastic component.
3. (Original) The method of claim 2, wherein the stochastic component comprises a policy for choosing among alternative decisions.
4. (Canceled)
5. (Currently amended) The method of claim 1, wherein the simulation model comprises ~~of~~ a Bayesian network.

6. (Currently amended) The method of ~~claim 3~~claim 5, wherein the Bayesian network comprises hierarchical variables, abstract data types, differentials, user-defined functions, ~~or~~and POMDPs.
7. (Original) The method of claim 1, further integrating the active decision making process with an external application.
8. (Original) The method of claim 7, wherein the external application comprises a simulation system.
9. (Original) The method of claim 7, wherein the simulation model is updated using the data obtained by monitoring the external application.
10. (Original) The method of claim 1, wherein the simulation model is updated using the result of the simulation.
11. (Currently amended) A computer implemented system for optimizing an active decision making process, comprising:
 - a. a simulation model for the active decision making process, wherein the simulation model comprises a utility function that encodes profit and loss;
 - b. generation of a plurality of alternative decisions at a choice point in the active decision making process;
 - c. for one of these alternative decisions, generation of a simulation of the future decision making process using the simulation model; and
 - d. analysis of the result of this simulation to select a decision for the choice point.
12. (Original) The system of claim 11, wherein the simulation model comprises a stochastic component.

13. (Original) The system of claim 12, wherein the stochastic component comprises of a policy for choosing among alternative decisions.
14. (Cancelled).
15. (Currently amended) The system of claim 11, wherein the simulation model comprises of a Bayesian network.
16. (Currently amended) The system of ~~claim 13~~claim 15, wherein the Bayesian network comprises hierarchical variables, abstract data types, differentials, user-defined functions, ~~or~~and POMDPs.
17. (Original) The system of claim 11, further integrating the active decision making process with an external application.
18. (Original) The system of claim 17, wherein the external application comprises a simulation system.
19. (Original) The system of claim 17, wherein the simulation model is updated using the data obtained by monitoring the external application.
20. (Original) The system of claim 11, wherein the simulation model is updated using the result of the simulation.